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APPLICATION NO	. Г	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,847		08/06/2003	Masanori Onuma	Q76879	6506	
23373	7590	08/23/2006		EXAMINER		
SUGHRU			LE, THANH TAM T			
2100 PENI SUITE 800		IIA AVENUE, N.W.		ART UNIT PAPER NUMBER 2839		
WASHING		20037				
				DATE MAILED: 09/23/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/634,847	ONUMA ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Thanh-Tam T. Le	2839					
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	Responsive to communication(s) filed on 14 .	lune 2006.						
, —	This action is FINAL . 2b) This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)🖂	4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-5</u> is/are rejected.							
-	Claim(s) is/are objected to.							
8)[8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9) The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Infor	ot(s) Dee of References Cited (PTO-892) Dee of Draftsperson's Patent Drawing Review (PTO-948) The mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Der No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 and 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gipe (4,031,614) in view of an Applicant's submitted Prior Art (APA).

Gipe, figures 1 and 2 show a method of connecting terminal fitting (25) and elastic wire (29), comprising:

- a terminal fitting (11);
- an electric wire (29);
- a conductive connecting member (13) formed with an insertion hole;
- inserting the electric wire into the insertion hole of the connecting member;
- compressing the connecting member radially inwardly so as to caulk an inserted portion of the electric wire uniformly over a whole periphery thereof;
 and thereafter
- welding the connecting member and the terminal fitting (column 3, lines 19-29 and column 4, lines 14-19).

Gipe discloses the claimed invention as described above except for welding the connecting member and the terminal fitting by applying ultrasonic wave.

APA, figures 7 and 8, discloses wire (51) and a flat-type aluminum wire (55) are heated and melted by an ultrasonic wave-generating source (57). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Gipe to have the ultrasonic wave as taught by APA for better welding.

Regarding claim 3, Gipe, figure 2 shows the connecting member including a first hole portion (21) and a second hole portion (19) that is larger than the first hole in diameter. The electric wire having a core wire (31) covered with an insulating sheath (33). The core wire is inserted in the first hole portion and the insulating sheath is inserted in the second hole portion, and the first hole portion and the second hole portion are disposed coaxially with each other. The connecting member is compressed so that the insulating sheath is held in intimate contact with the second hole portion.

Regarding claim 4, Gipe, figure 2 shows the terminal fitting is provided with a clamping portion (17) and press-clamping the conductive connecting member by the clamping portion.

Regarding claim 5, Gipe shows an outer peripheral portion of the connecting member to be compressed in the compressing process has a continuous cylindrical shape.

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gipe in view of APA as applied to claim 1 above, and further in view of Hsieh (4,998,344).

Gipe discloses the claimed invention as described above except for the connecting member is compressed and shaped by rotary swaging.

Hsieh, figures 1-3 show rotary swaging a workpiece (1) that is generally a cylindrical tube to form a semi-product. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Gipe to have the connecting member is compressed and shaped by rotary swaging, as taught by Hsieh, in order to have more security between the connecting member and the wire.

Response to Arguments

4. Applicant's arguments filed 6/14/06 have been fully considered but they are not persuasive.

Applicant argues that Gipe makes no mention of compressing the connecting member radially inwardly so as to caulk an inserted portion of an electric wire.

The Examiner disagrees. Gipe, figure 2 shows the part (19) of the connecting member (13) will deform to grip, to retain and to secure the wire (29), otherwise the wire will be moved out from the connecting member. Although Gipe does not mention about the compressing, but the method of compressing is as a same as a method of deforming and retaining the wire into the connecting member.

In addition, the steps of providing a conductive connecting member formed with an insertion hole and inserting the electric wire into the insertion hole are not necessary in order. That means the claims are not required the connecting member 13 is formed to create a hole before or after the electric wire 29 is placed on the connecting member.

For the above reasons, it is believed that the rejections should be sustained.

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Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

- 6. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094. The examiner can normally be reached on 7:30-5:00.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanh-Tam T. Le Primary Examiner Art Unit 2839

TL. 08/18/06.